Internati pplication No PCT/GB 02/04633

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/11 C07K14/47 C12N15/67 A61K38/16 A61K47/48 C12N5/10 A01K67/027 C12N15/82

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K A61K A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, MEDLINE

Calegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	WO 01 02019 A (IMP COLLEGE INNOVATIONS LTD; ALI SIMAK (GB); BULUWELA LAKJAYA (GB)) 11 January 2001 (2001-01-11)	1-43
Y	abstract; claims 1-8,16-24,45-49	3-5, 11-16, 36,38
X	WO 99 11809 A (IMP COLLEGE INNOVATIONS LTD ;CRISANTI ANDREA (GB)) 11 March 1999 (1999-03-11)	1,2, 6-10, 17-35, 37,39-43
	page 10, line 1-13 page 12, line 11 -page 13, line 3 page 16, line 1-14	37,35-43
,		3-5, 11-16, 36,38
	-/	

Further documents are listed in the continuation of box C.	Palent tarnily members are listed in annëx.
*Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filling date but later than the priority date claimed	*T* later document published after the International filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cennot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an invention step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family
Date of the actual completion of the International search 12 February 2003	Date of mailing of the international search report 26/02/2003
Name and mailing address of the ISA European Palant Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3018	Authorized onloar Griesinger, I

Internation pplication No
PCT/GB 02/04633

		PCT/GB 02/04633		
<u> </u>	istion) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	WO 01 59094 A (SALK INST FOR BIOLOGICAL STUDI) 16 August 2001 (2001-08-16) abstract	1-43		
(LEBEDEVA I ET AL: "Cellular delivery of antisense oligonucleotides" EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 50, no. 1, 3 July 2000 (2000-07-03), pages 101-119, XP004257182 ISSN: 0939-6411 page 106, right-hand column, paragraph 5-page 109, left-hand column, paragraph 2	1-43		
	STRUHL K: "histone acetylation and transcriptional regulatory mechanisms" GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 12, 1998, pages 599-606, XP002157338 ISSN: 0890-9369			

or nal application No. PCT/GB 02/04633

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain dalms under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 37 (partially) because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable dains.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the dalms; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International Application No. PCT/GB 02 \(\Delta 4633 \)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 1-23, 27, and 42 could be interpreted as being directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box 1.1

Claims Nos.: 37 (partially)

The term "animal" could be interpreted as including humans. However, transgenic humans are not considered patentable (Rule 9.1 PCT).

ERIC PUTTER CLARKSON

INTERNATIONAL SEARCH REPORT

nf tion on patent family members

Internatio pplication No PCT/GB 02/04633

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
		11-01-2001	AU	5556600 A	22-01-2001
WO 0102019	Α	11-01-2001	EP	1190073 A	. =====================================
			MO	0102019 A	
			GB	2367555 A	
				707000 0	2 30-08-2001
WO 9911809	Α	11-03-1999	AU	737829 B	
			AU	8877698 A	
			BR	9811744 A	
			CA	2301157 A	
			EP	1009847 A	1 21-06-2000
			WO	9911809 A	11-03-1999
		•	ĴΡ	2001514858 T	18-09-2001
			NZ	503007 A	
WO 0159094	Α	16-08-2001	AU	3696101 A	20-08-2001
MO 0103034	^	10 00 5001	WO	0159094 A	
			US	2002022021 A	

08/04 2004 13:40 FAX 01159522201

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
To: ERIC POTTER CLARKSON Attn. Miles, John S. Park View House 58 The Ropewalk Nottingham NG1 5DD UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)				
89	Date of mailing (day/month/year) 26/02/2003				
Applicant's or agent's file reference GENY/P27203PC	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/GB 02/04633	International filing date (day/month/year) 11/10/2002				
Applicant GENE EXPRESSION TECHNOLOGIES LIMITED					
The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filling such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35					
For more detailed instructions, see the notes on the acco	mpanying sheet.				
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	n Report will be established and that the declaration under				
with record to the protest analyst payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the ap-	plicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following:					
Shortly after 16 months from the priority date, the International application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bls.1 and 90bls.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, a demand for international pretiminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).					
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.					
Attack Carroling Authority	Authorized offices				

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Catriona Cleere

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the daims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Flute 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Fule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- (Where originally there were 48 claims and after amendment of some claims there are 51);
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added. or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference GENY/P27203PC	FOR FURTHER see Notification of (Form PCT/ISA/2	of Transmittal of International Search Report 20) as well as. where applicable, item 5 below.					
4	International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
	PCT/GB 02/04633	11/10/2002	11/10/2001					
ſ	Applicant	-						
	GENE EXPRESSION TECHNOLOGIES LIMITED							
	This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant					
	This International Search Report consists It is also accompanied by	of a total of <u>6</u> sheets, a copy of each prior art document cited in this	report					
Γ	1. Basis of the report							
	 a. With regard to the language, the language in which it was filed, unlined. 	International search was carried out on the basess otherwise indicated under this item.	sls of the international application in the					
	Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t						
	b. With regard to any nucleotide an was carried out on the basis of the	nd/or amino acid sequence disclosed in the international application, the international search sequence listing:						
-		ional application in written form.						
	liled together with the inte	mational application in computer readable form	n.					
	furnished subsequently to	this Authority in written form.						
		o this Authority in computer readble form.						
	international application a							
	the statement that the info furnished	rmalion recorded in computer readable form is	sidentical to the written sequence listing has been					
1	2. X Certain claims were four	nd unsearchable (See Box I).						
	3. Unity of invention is lack	king (see Box II).						
	4. With regard to the title,							
	the text is approved as sui	bmitted by the applicant.						
ŀ		ned by this Authority to read as follows:	or recovery noming and a presentance					
	CONTROL OF GENE EXPRES RY PEPTIDE	SION USING A COMPLEX OF AN	OLIGONUCLEOTIDE AND A REGULATO					
	5. With regard to the abstract.							
	the text is approved as suither text has been establish within one month from the	omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	y as it appears in Box III. The applicant may, on, submit comments to this Authority.					
	6. The figure of the drawings to be publi		1					
	as suggested by the applic		None of the figures.					
	because the applicant faile		_					
	because this figure better	characterizes the invention.						

International application No.

PCT/GB 02/04633

INTERNATIONAL SEARCH REPORT

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method for suppressing the expression of a selected gene in a cell the method comprising introducing into the cell a molecule comprising (1) a nucleic acid binding portion which binds to a site or associated with the selected gene which site is present in a genome and (2) an expression repressor portion, wherein the nucleic acid binding portion comprises an oligonucleotide or oligonucleotide mimic or analogue, and wherein the repressor portion comprises a polypeptide or peptidomimetic. Molecules for use in the methods of the invention are provided. The repressor may be a portion of a histone deacetylase or DNA methylase or polypeptide capable of recruiting a histone deacetylase or DNA methylase.

International Application No PCT/GB 02/04633

a. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/11 C07K14/47

C12N5/10

A01K67/027

C12N15/67 C12N15/82

A61K38/16

A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K A61K A01K

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCOIN.	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Calegory *	Olitatori of Goodinami, and incertainty	
χ	WO 01 02019 A (IMP COLLEGE INNOVATIONS LTD	1-43
^	;ALI SIMAK (GB); BULUWELA LAKJAYA (GB))	
	11 January 2001 (2001-01-11)	2 5
Υ	abstract; claims 1-8,16-24,45-49	3-5, 11-16,
		36,38
		30,30
χ	WO 99 11809 A (IMP COLLEGE INNOVATIONS LTD	1,2,
^	;CRISANTI ANDREA (GB))	6-10,
	11 March 1999 (1999-03-11)	17-35,
		37,39-43
	page 10, line 1-13	
	page 12, line 11 -page 13, line 3	
.,	page 16, line 1-14	3-5,
Y		11-16,
		36,38
		1
	-/	1
	·	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other means
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- '&' document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

26/02/2003

12 February 2003

Name and mailing address of the ISA European Palent Office, P.B. 5818 Falentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni. Fax: (+31-70) 340-3016

Authorized officer

Griesinger, I

Form PCT/ISA/210 (eecond shoot) (July 1992)

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International Application No
PCT/GB 02/04633

		L LCILER 05	7 04033
C /Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	WO 01 59094 A (SALK INST FOR BIOLOGICAL STUDI) 16 August 2001 (2001-08-16) abstract		1-43
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2

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 1.1

Although claims 1-23, 27, and 42 could be interpreted as being directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 37 (partially)

The term "animal" could be interpreted as including humans. However, transgenic humans are not considered patentable (Rule 9.1 PCT).

ERIC PUTTER CLARKSON

INTERNATIONAL SEARCH REPORT

International application No. PCT/GB 02/04633

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Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No PCT/GB 02/04633

Patent document dited in search report		Publication date		Patent family member(s)	Publication date
WO 0102019	A	11-01-2001	AU EP WO GB	5556600 A 1190073 A2 0102019 A2 2367555 A	22-01-2001 27-03-2002 11-01-2001 10-04-2002
WO 9911809	Α	11-03-1999	AU AU BR CA EP WO JP NZ	737829 B2 8877698 A 9811744 A 2301157 A1 1009847 A1 9911809 A1 2001514858 T 503007 A	30-08-2001 22-03-1999 02-01-2002 11-03-1999 21-06-2000 11-03-1999 18-09-2001 24-11-2000
WO 0159094	А	16-08-2001	AU WO US	3696101 A 0159094 A2 2002022021 Al	20-08-2001 16-08-2001 21-02-2002

Farm PCT/ISW210 (patent family armox) (July 1992)

Internati pplication No PCT/GB 02/04633

Relevant to claim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/11 C07K14/47 C12N5/10 A01K67/027 A61K38/16 C12N15/67 A61K47/48 A01K67/027 C12N15/82

According to International Patent Classification (IPC) or to both national classification and IPC

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Category °

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N C07K A61K A01K

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EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, MEDLINE

Citation of document, with indication, where appropriate, of the relevant passages

х	WO 01 02019 A (IMP COLLEGE INNO ;ALI SIMAK (GB); BULUWELA LAKJA		1-43
Y	11 January 2001 (2001-01-11) abstract; claims 1-8,16-24,45-4	19	3-5, 11-16, 36,38
X	WO 99 11809 A (IMP COLLEGE INNO ;CRISANTI ANDREA (GB)) 11 March 1999 (1999-03-11)	OVATIONS LTD	1,2, 6-10, 17-35, 37,39-43
Υ	page 10, line 1-13 page 12, line 11 -page 13, line page 16, line 1-14	3	3-5, 11-16, 36,38
	ner documents are listed in the continuation of box C.	Patent family members are listed	in annëx.
"A" docume conside "E" earlier d	legories of cited documents: nt defining the general state of the art which is not ered to be of particular relevance locument but published on or after the International	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the c	the application but long underlying the
which I citation "O" docume other n "P" docume	nt which may throw doubts on priority claim(s) or s ched to establish the publication date of another or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	cannot be considered novel or cannot involve an inventive step when the do "Y" document of particular relevance; the considered to involve an involve an involve and involve and involve and courant is combined with one or moments, such combination being obvious in the art. "&" document member of the same patent of	be considered to current to taken alone alimed invention entive step when the re other such docu- is to a person skilled
Date of the a	actual completion of the international search	Date of mailing of the International sea	rch report
12	2 February 2003	26/02/2003	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Griesinger, I	
om PCT/ISA/2	10 (second sheet) (July 1992)		

Internatio pplication No
PCT/GB 02/04633

		PCI/GB 02	./ 04033
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		Television Company
Category °	Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.
1	WO 01 59094 A (SALK INST FOR BIOLOGICAL STUDI) 16 August 2001 (2001-08-16) abstract		1-43
(LEBEDEVA I ET AL: "Cellular delivery of antisense oligonucleotides" EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 50, no. 1, 3 July 2000 (2000-07-03), pages 101-119, XP004257182 ISSN: 0939-6411 page 106, right-hand column, paragraph 5 -page 109, left-hand column, paragraph 2		1-43
	STRUHL K: "histone acetylation and transcriptional regulatory mechanisms" GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 12, 1998, pages 599-606, XP002157338 ISSN: 0890-9369		

Inter nal application No. PCT/GB 02/04633

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: 37 (partially) because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
This international Searching Authority found multiple inventions in this international application, as follows:	!
·	
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.	* ",
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 1-23, 27, and 42 could be interpreted as being directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 37 (partially)

The term "animal" could be interpreted as including humans. However, transgenic humans are not considered patentable (Rule 9.1 PCT).

inf tion on patent family members

Internatio pplication No PCT/GB 02/04633

					
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0102019	Α	11-01-2001	AU	5556600 A	22-01-2001
			EP	1190073 A2	27-03-2002
			WO	0102019 A2	11-01-2001
			GB	2367555 A	10-04-2002
WO 9911809	A	11-03-1999	AU	737829 B2	30-08-2001
			AU	8877698 A	22-03-1999
			BR	9811744 A	02-01-2002
			CA	2301157 A1	11-03-1999
			EP	1009847 A1	21-06-2000
			WO	9911809 A1	11-03-1999
			JР	2001514858 T	18-09-2001
			NZ	503007 A	24-11-2000
WO 0159094	A	16-08-2001	AU	3696101 A	20-08-2001
			WO	0159094 A2	16-08-2001
			US	2002022021 A1	21-02-2002

PATENT COOPERATION TREATY

烟 058 PCT/GB02/04633

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU U 9 MAY 2003 MILES, John, S. Eric Potter Clarkson PARTNER ACTION...: Park View House 58 The Ropewalk Nottingham NG1 5DD ROYAUME-UNI

Date of mailing(day/month/year) 24 April 2003 (24.04.03)

Applicant's or agent's file reference GENY/P27203PC

IMPORTANT NOTICE

International application No. PCT/GB02/04633

International filing date(day/month/year) 11 October 2002 (11.10.02)

Priority date(day/month/year) 11 October 2001 (11.10.01)

Applicant

GENE EXPRESSION TECHNOLOGIES LIMITED

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

KP, KR, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OA, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

- Enclosed with this notice is a copy of the international application as published by the International Bureau on 24 April 2003 (24.04.03) under No. 03/033701
- 4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see PCT Gazette No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

The applicant is hereby notified that, at the time of establishment of this Notice, the time limit under Rule 46.1 for making amendments under Article 19 has not yet expired and the International Bureau had received neither such amendments nor a declaration that the applicant does not wish to make amendments.

The International Bureau of WIPO 34, chemin des Colombeucs 1211 Geneva 20, Switzerland

Authorized officer

Judith Zahra

Facsimile No.(41-22) 740.14.35

Telephone No.(41-22) 338.91.11



REQUEST

	For receiving Office use only	
International Application	on No.	
International Filing Da	te	
Name of receiving Offi	ice and "PCT International Appl	ication

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"
	Applicant's or agent's file reference (if desired) (12 characters maximum) GENY/ P27203PC
Box No. I TITLE OF INVENTION CONTROL OF GENE EXPRESSION	
Box No. II APPLICANT This person is	s also inventor
Name and address: (Family name followed by given name; for a legal entity, fin. The address must include pastal ende and name of country. The country of the ade Bus is the applicant's State (that is, country) of residence if no State of residence is tail	lress indicated in this
Gene Expression Technologies Limited 90 Fetter Lanc	Facsimile No.
London EC4A 1JP United Kingdom	Teleprinter No.
	Applicant's registration No. with the Office
State (that is, country) of nationality: GB	State (that is, country) of residence: GB
This person is applicant all designated all designated of the purposes of:	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) I	NVENTOR(S)
Name and address: (Family name followed by given name; for a legal entity, f The address must include passal code and name of country. The country of the ac Bus is the applicant's State (that is, country) of residence if no State of residence is indi-	ldress indicated in this 1
HART, Stephen Division of Medicine, Cancer Cell Biology Section	X applicant and inventor
Imperial College School of Medicine, Hammersmith Campus Room 601b, Cyclotron Building Du Cane Road	inventor only (If this check-box Is marked, do not fill in below)
London W12 0NN United Kingdom	Applicant's registration No. with the Office
State (that is, country) of nationality: GB	State (that is, country) of residence: GB
This person is applicant all designated all designated States all designated States all designated States	
X Further applicants and/or (further) inventors are indicated on a continuous	nuation sheet.
BOX No. IV AGENT OR COMMON REPRESENTATIVE; OR A	DDRESS FOR CORRESPONDENCE
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	X agenl common representative
Name and address: (Family name followed by given name; for a legal entity, full the address must include postal code and name of country.)	I official designation. Telephone No. (0115) 9552211
Miles, John S Eric Potter Clarkson Park View House	Facsimile No. (0115) 9552201
58 The Ropewalk Nouingham	Teleprinter No. 37540 Potter G
NG1 SDD England	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where no agent space above is used instead to indicate a special address to which cor	or common representative is/has been appointed and the respondence should be sent.

Sheet No ..2.. FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Continuation of Box No. III If none of the following sub-boxes is used, this sheet should not be included in the request. Name and address: (Family name followed by given name; for a legal entity, full official designation, This person is: The address must include postal code and name of country. The country of the address indicated in this Box is the opplicant's State (that is, country) of residence if no State of residence is indicated helow.) applicant only Division of Medicine, Cancer Cell Biology Section applicant and inventor Imperial College School of Medicine, Hammersmith Campus inventor only (If this check-box is marked, Room 601b, Cyclotron Building do not fill in below) Du Cane Road Landon W12 0NN Applicant's registration No. with the Office United Kingdom State (that is, country) of residence: State (that is, country) of nationality: GB GB the States indicated in the Supplemental Box the United States oll designated States except This person is applicant [X] all designated States the United States of America of America only for the purposes of:. Name and address: (Family name followed by given name: for a legal entity, full official designation. This person is The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only PUFONG, Boris Tumi X applicant and inventor Gene Expression Technologics Ltd The London BioScience Innovation Centre inventor only (If this check-box is marked, Royal College Street do not fill in below) London Applicant's registration No. with the Office NWI OTU United Kingdom State (that is, country) of residence: State (that is, country) of nationality: GB GB the States indicated in the United States all designated States except This person is applicant all designated States the Supplemental Box the United States of America of America only for the purposes of: Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is The address must include postal code and name of country. The country of the address indicated in this Box to the applicant's State (that w. country) of residence if no State of residence is indicated below.) applicant only PORTER, Andrew Christopher George X applicant and inventor Gene Targeting Group MRC Clinical Sciences Centre inventor only (If this check-box is marked, Hammersmith Hospital do not fill in below) Du Cane Road Applicant's registration No. with the Office London W12 0NN United Kingdom State (that is, country) of residence: State (that is, country) of nationality: GB GB the United States the States indicated in all designated States except This person is applicant all designated States the Supplemental Box the United States of America of America only for the purposes of: Name and address: (Family name followed by given name: for a legal entity, full official designation. This person is The address must include postal code and name of country. The country of the address indicated in this Bux is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only BULUWELA, Laki Division of Medicine, Cancer Cell Biology Section X applicant and inventor Imperial College School of Medicine, Hammersmith Campus inventor only (If this check-box is marked, Room 601b, Cyclotron Building do not fill in below) Du Cane Road Applicant's registration No. with the Office London W12 0NN United Kingdom State (that is, country) of residence: State (that is, country) of nationality: GB GB the States indicated in the United States all designated States except This person is applicant all designated States of America only the Supplemental Box the United States of America for the purposes of: Further applicants and/or (further) inventors are indicated on another continuation sheet.

Form PCT/RO/101 (continuation sheet) (March 2001; reprint July 2002)

See Notes to the request form

Sheet No3	
Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHEI	R) INVENTOR(S)
If none of the following sub-baxes is used, this sheet should not be included in the reques	
Name and address: (Family name followed by given name; for a legal entity, full afficial designation. The address must include pastal code and name of country. The country of the address indicated in the must is the applicant's State (that is, country) of residence of no State of residence is indicated below.) VAINIKKA. Satu Gene Expression Technologies Ltd The London BioScience Innovation Centre Royal College Street London NW1 0TU United Kingdom	applicant only X applicant and inventor inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is. country) of nationality: FI State (that	is, country) of residence: GB
This person is applicant all designated States and designated States except for the purposes of:	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name: for a legal entity, full official designation the address situat include postal code and name of country. The country of the address indicated in the hox is the applicant's State (that is, country) of residence if no State of residence is indicated helow.) JENKINSON, John David Gene Expression Technologies Ltd The London BioScience Innovation Centre Royal College Street London NWI 0TU United Kingdom	applicant only X applicant and inventor inventor only (If this check-hox is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality: GB	is, country) of residence: GB
This person is applicant all designated States all designated States except for the purposes of:	the United States the States indicated in the Supplemental Box
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State (that is, country) of nationality: US State (that	is, country) of residence:
This person is applicant all designated States all designated States except for the purposes of:	If United States the States indicated in the Supplemental Box
Name and address: (Fomily name followed by given name: for a legal entity, full afficial dexignation. The address must include postal code and name of country. The country of the address indicated in the Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality: State (that	is, country) of residence:
This person is applicant all designated States all designated States except for the purposes of:	the United States Indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated on another continuation sheet.	

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	No. V	DESIGNATION OF STATES	Dula 4	0(0):	Mark the applicable check-boxes b	elow;	at leost	one must be marked.
1		ig designations are hereby made under	Kule 4	.9(a).				
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other	r design	y Designation Statement: In adations which would be permitted in the scope of this statement.	unde Tre ap	r the Population	CT except any designation(s) it declares that those additional desi	ndicate ignatio	d in t nsare	he Supplemental Box as being subject to confirmation and that

any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withd applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

		Sheet No5		
Box No. VI PRIORTTY CLAI	íM:			
The priority of the following earlier a	pplication(s) is hereby claimed:			
			Where cartier application is	:
Filing date of earlier application (day/month/sea	Number of cartier application	national application; country of Meinber of WTO	regional application:* regional Office	international application: receiving Office
itcm (1)	0124391.4	GB		
item (2)				
iıcm (3) -				
item (4)				
item (5)				
Further priority claims are inc	dicated in the Supplemental Box			
The receiving Office is requested the earlier application was filed with all items item (1)	to prepare and transmit to the Office which for the purpose	es of this international applic	certified copy of the ear cation is the receiving Office on (4) item (5)) identified above as:
Where the corlier application is a Property or one Member of the World	l Trade Organization for which	al least one country party to that earlier application was	filed (Rule 1.10(b)(ii)):	the Protection of Industrial
Bux No. VII INTERNATIONA	L SEARCHING AUTHORIT	Υ		
Choice of International Searching search, indicate the Authority chosen,	Authority (ISA) (if two or more the two letter code may be used	re International Searching A d):	Authorities are competent to	carry out the international
ISA/				
Request to use results of earlier se Searching Authority):	arch; reference to that search	n (if an earlier search has b	een carried out by or reque	sied from the International
Date (day/month/year)	Number	Country (d	or regional Office)	
Box No. VIII DECLARATIONS	3			
The following declarations are conta check-boxes helow and indicate in the	ined in Boxes Nos. VIII (i) to (v. right column the number of each	r) (mark the applicable th type of declaration);		mber of clarations
Box No. VIII (i) Declarat	jon as to the identity of the inve	ntor	:	
	ion as to the applicant's entitlem apply for and be granted a patent		iling ;	
	ion as to the applicant's entitlem claim the priority of the earlier a		ling :	
	ion of inventorship (only for the `America)	purposes of the designation	of the United :	
Box No. VIII (v) Declarat	ion as to non-prejudicial disclos	ures or exceptions to lack of	novelty :	

Sheet No ..6..

		This international application is accompanied by the following	Numb
This international application contains a) the following number of	ns:	item(s) (mark the applicable check-boxes below and Indicate in	of iten
sheets in paper form:		right column the number of each item):	
request (including declaration sheets)	: 6	1 fcc calculation sheet	:
description (excluding sequence listing part)	: 75	2 original separate power of attorney	:
·	: 7	3 original general power of attorney	;
claims	: 2	4. X copy of general power of attorney; reference number, if any:	3
abstract		5. statement explaining lack of signature	;
drawings	:	6. priority document(s) identified in Box No. VI as item(s):	•
Sub-total number of sheets:	: 96	7. translation of international application into (language):	:
Sequence listing part of descrip (actual number of sheets if filed paper form, whether or not also	l in	8. separate indications concerning deposited microorganism or other biological material	:
filed in computer readable form see (b) below)		9. sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))	:
Total number of sheets:	: 96	(i) copy submitted for the purposes of international search under Rule 13 ter only (and not as part of the	
 Sequence listing part of descrip computer readable form 	tion filed in	international application)	:
(i) only (under Section	801(a)(i))	(ii) (only when check-box (b)(i) or (b) (ii) is marked in left column) additional copies including, where applicable,	
(ii) <u> </u>		the copy for the purposes of international search under Rule13ter	:
Type and number of carriers CD-ROM, CD-R or other) on w sequence listing part is contained	vhich the	(iii) together with relevant statement as to the identity of the copy or copies with the sequence listing part	
copies to be indicated under ite right column):	m 9(ii), in	mention in the left column	:
Figure of the drawings which		Language of filing of the	•
hould accompany the abstract:	1	international application: English	
ROX NO. X SIGNATURE OF	F APPLICANT, AGEP of the person signing and t	NT OR COMMON REPRESENTATIVE the capacity in which the person signs (if such capacity is not obvious from reading the reques	est).
ROX NO. X SIGNATURE OF	F APPLICANT, AGEN of the person signing and t	TOR COMMON REPRESENTATIVE the capacity in which the person signs (if such capacity is not obvious from reading the requestry in the person signs of the sequence of the person signs of the sequence of the person signs of the sequence of th	(SI).
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